

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. DERM1100-2	Application No. Unassigned
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Rheins and Morhenn	
		Filing Date September 28, 2001	Group Art Unit Unassigned

U.S. PTO  
09/970617  
10/03/01

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						

Foreign Patent Documents or Published Foreign Patent Applications							
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation
	AB						Yes No

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
3M	AC	Farage, M.A., et al., "DEVELOPMENT OF A NONINVASIVE METHOD FOR ASSESSING HUMAN SKIN IRRITATION," The Toxicologist (1997) Vol. 36, No. 1, Part 2, pp. 365.
3M	AD	Nickoloff, B.J., M.D., Ph.D., et al., "Perturbation of epidermal barrier function correlates with initiation of cytokine cascade in human skin," Journal of the American Academy of Dermatology (1994) Vol. 30, No. 4, pp. 535-546.
3M	AE	Tetsuji, H., et al., "Elevation of Interleukin 1 Receptor Antagonist in the Stratum Corneum of Sun-exposed and Ultraviolet B-irradiated Human Skin," The Journal of Investigative Dermatology (1996) Vol. 106, No. 5, pp. 1102-1107.
3M	AF	Weigand, D.A., M.D., et al., "REMOVAL OF STRATUM CORNEUM IN VIVO: AN IMPROVEMENT ON THE CELLOPHANE TAPE STRIPPING TECHNIQUE," The Journal of Investigative Dermatology (1973) Vol. 60, No. 2, pp. 84-87.
3M	AG	van Hoogdalem, Ewoud J., "Assay of Erythromycin in Tape Strips of Human Stratum corneum and Some Preliminary Results in Man" Skin Pharmacol (1992) Vol. 5, pp. 124-128.
3M	AH	van der Molen, R.G., et al., "Tape stripping of human stratum corneum yields cell layers that originate from various depths because of furrows in the skin," Archives of Dermatological Research (1997) Vol. 289, pp. 514-518.
3M	AI	Dreher, F., et al., "Colorimetric Method for Quantifying Human Stratum Corneum Removed by Adhesive-Tape-Stripping," Acta Derma Venereol (Stockholm), (1998) Vol. 78, pp. 186-189.
3M	AJ	Martin, E., et al., "A Critical Comparison of Methods to Quantify Stratum corneum Removed by Tape Stripping," Skin Pharmacology (1996) Vol. 9, pp. 69-77.
3M	AK	Goldschmidt, H., M.D., et al., "Desquamation of the Human Horny Layer," Archives of Dermatology (1967) Vol. 95, pp. 583-586.
3M	AL	Hojyo-Tomoka, M.D., et al., "Does Cellophane Tape Stripping Remove the Horny Layer?" Archives of Dermatology (1972) Vol. 106, No. 5, pp. 767-768.
3M	AM	Klaschka, F., M.D., et al., "INDIVIDUAL TRANSPARENCY PATTERNS OF ADHESIVE-TAPE STRIP SERIES OF THE STRATUM CORNEUM," International Journal of Dermatology (1977), Vol. 16, No. 10, pp. 836-841.
3M	AN	Klaschka, F., et al., "New Measuring Device of Horny Layer Transparency," Archives of Dermatology (1975) Vol. 254, pp. 313-325.
3M	AO	Katz, H.I., M.D., et al., "Skin-Surface Touch Print for Diagnosing Fungal Infections," American Family Physician (1985) Vol. 31, No. 4, pp. 189-194.

Examiner Signature <i>Zach Howard</i>	Date Considered 5/25/2004
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
ZH	AP	Van Der Valk, P.G.M., et al., "A functional study of the skin barrier to evaporative water loss by means of repeated cellophane-tape stripping," Clinical and Experimental Dermatology (1990) Vol. 15, No. 3, pp. 180-182.
ZH	AQ	Potts, R.O., et al., "Physical Methods for Studying Stratum Corneum Lipids," Seminars in Dermatology (1992) Vol. 11, No. 2, pp. 129-138.
ZH	AR	Farage, M.A., et al., "Further Development of Noninvasive Method for Assessing Human Skin Irritation," Abstract #1909, The Proctor & Gamble Company, (1998).

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	Applicant <b>Rheins and Morhenn</b>		
	Filing Date <b>September 28, 2001</b>	Group Art Unit <b>Unassigned</b>	

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## U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
ZH	AA	5,753,612	5/19/98	Mitrani	514	2	
ZH	AB	4,971,800	11/20/90	Chess <i>et al.</i>	424	449	
ZH	AC	4,537,776	8/27/85	Cooper	514	424	
ZH	AD	5,460,939	10/24/95	Hansbrough <i>et al.</i>	435	1.1	

## Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AE							

## Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AF	

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<b>FORM 1449</b> U.S. Department of Commerce Patent and Trademark Office NOV 18 2002 RECEIVED NOV 20 2002 TECH CENTER 1600/2900	<b>Docket No.:</b> DERM1100-3	<b>Serial No.:</b> 09/970,617
	<b>Applicants:</b> Rheins and Morhenn	
<b>INFORMATION DISCLOSURE STATEMENT</b> BY APPLICANT	<b>Filing Date:</b> October 3, 2001	<b>Group Art Unit:</b> 1646

### U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
3H	AA	6,355,439 B1	03/12/02	Chung et al.	435	6	09/22/99

### FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

3H	AB	✓	Cosini and Galli, "Cytokines and Irritant Contact Dermatitis," <i>Toxicology Letters</i> , 102-103:277-282, Elsevier (1998).
Duplicate copy	AC	✓	Dreher et al., "Colorimetric Method for Quantifying Human <i>Stratum Corneum</i> Removed by Adhesive-Tape Stripping," <i>Acta Derma Venereol</i> , 78:186-189, Scandinavian University Press (1998).
Duplicate copy	AD	✓	Farage, M.A. et al., "Further Development of Noninvasive Method for Assessing Human Skin Irritation," Abstract #1909, <i>The Proctor &amp; Gamble Company</i> , (1998)
3H	AE	✓	Freedberg et al., "Keratins and the Keratinocyte Activation Cycle," <i>The Journal of Investigative Dermatology</i> , 116(5):633-640, The Society for Investigative Dermatology, Inc. (2001).
Duplicate copy	AF	✓	Goldschmidt and Kligman, "Desquamation of the Human Horny Layer," <i>Arch. Derm.</i> , 95:583-586, American Medical Association (1967).
3H	AG	✓	Hamid et al., "In Vivo Expression of IL-12 and IL-13 in Atopic Dermatitis," <i>Journal of Allergy and Clinical Immunology</i> , 98(1):1-8, Mosby-Year Book, Inc. (1996).

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U.S. Department of Commerce Patent and  
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Docket No.:  
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Applicants: Rheins and Morhenn

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INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

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October 3, 2001

Group Art Unit:  
1646

311	AH	Hirao et al., "Elevation of Interleukin 1 Receptor Antagonist in the Stratum Corneum of Sun-Exposed and Ultraviolet B-Irradiated Human Skin," <i>The Journal of Investigative Dermatology</i> , 106(5):1102-1107, The Society for Investigative Dermatology, Inc. (1996).
Duplicate copy	AI	Hojyo-Tomoka and Kligman, "Does Cellophane Tape Stripping Remove the Horny Layer?" <i>Arch. Derm.</i> , 106(5):767-768 (1972).
311	AJ	Junghans et al., "Epidermal Cytokines IL-1 $\beta$ , TNF- $\alpha$ , and IL-12 in Patients with Atopic Dermatitis: Response to Application of House Dust Mite Antigens," <i>The Journal of Investigative Dermatology</i> , 111(6):1184-1188, The Society for Investigative Dermatology, Inc. (1998).
Duplicate copy	AK	Katz et al., "Skin-Surface Touch Print for Diagnosing Fungal Infections," <i>American Family Physician</i> , 31(4):189-194, American Academy of Family Physicians (1985).
Duplicate copy	AL	Klaschka and Norenberg, "Individual Transparency Patterns of Adhesive-Tape Strip Series of the Stratum Corneum," <i>International Journal of Dermatology</i> , 16(10):836-841, J.B. Lippincott Company (1997).
Duplicate copy	AM	Klaschka and Norenberg, "New Measuring Device of Horny Layer Transparency," <i>Arch. Derm. Res.</i> , 254:313-325, Springer-Verlag (1975).
311	AN	Kondo et al., "Characterization of Epidermal Cytokine Profiles in Sensitization and Elicitation Phases of Allergic Contact Dermatitis as Well as Irritant Contact Dermatitis in Mouse Skin," <i>Lymphokine and Cytokine Research</i> , 13(6):367-375, Mary Ann Liebert, Inc. (1994).
Duplicate copy	AO	Martin et al., "A Critical Comparison of Methods to Quantify Stratum corneum Removed by Tape Stripping," <i>Skin Pharmacol.</i> , 9:69-77 S. Karger AG (1996).
Duplicate copy	AP	Nickoloff and Naidu, "Perturbation of Epidermal Barrier Function Correlates with Initiation of Cytokine Cascade in Human Skin," <i>Journal of the American Academy of Dermatology</i> , 30(4):535-546, American Academy of Dermatology, Inc. (1994).
311	AQ	Nickoloff et al., "Keratinocyte Interleukin-10 Expression is Upregulated in Tape-Stripped Skin, Poison Ivy Dermatitis, and Sezary Syndrome, but Not in Psoriatic Plaques," <i>Clinical Immunology and Immunopathology</i> , 73(1):63-68, Academic Press, Inc. (1994).

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	<b>Applicants:</b> Rheins and Morhenn	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	<b>Filing Date:</b> October 3, 2001	<b>Group Art Unit:</b> 1646

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341	AR ✓	Ohmen et al., "Overexpression of IL-10 in Atopic Dermatitis," <i>The Journal of Immunology</i> , 154:1956-1963, The American Association of Immunologists (1995).
341	AS ✓	Perkins et al., "Development of a Noninvasive Method for Assessing Human Skin Irritation," <i>The Toxicologist</i> , 36(1):365, Academic Press, Inc. (1997).
341	AT ✓	Perkins et al., "A Noninvasive Method to Assess Skin Irritation and Compromised Skin Conditions Using Simple Tape Adsorption of Molecular Markers of Inflammation," <i>Skin Res. Technol.</i> , 7(4):227-237 (2001).
Duplicate copy	AU ✓	Potts and Francoeur, "Physical Methods for Studying Stratum Corneum Lipids," <i>Seminars in Dermatology</i> , 11(2):129-138, W.B. Saunders Company (1992).
341	AV ✓	Ryan and Gerberick, "Cytokine mRNA Expression in Human Epidermis after Patch Treatment with Rhus and Sodium Lauryl Sulfate," <i>American Journal of Contact Dermatitis</i> , 10(3):127-135, W.B. Saunders Company (1999).
Duplicate copy	AW ✓	van der Molen et al., "Tape Stripping of Human Stratum Corneum Yields Cell Layers that Originate from Various Depths because of Furrows in the Skin," <i>Arch. Dermatol. Res.</i> , 289:514-518, Springer-Verlag (1997).
Duplicate copy	AX ✓	van der Valk and Maibach, "A Functional Study of the Skin Barrier to Evaporative Water Loss by Means of Repeated Cellophane Tape Stripping," <i>Clinical and Experimental Dermatology</i> , 15(3):180-182 (1990).
Duplicate copy	AY ✓	van Hoogdalem, "Assay of Erythromycin in Tape Strips of Human Stratum corneum and Some Preliminary Results in Man," <i>Skin Pharmacol.</i> , 5:124-128, S. Karger AG (1992).
Duplicate copy	AZ ✓	Weigand and Gaylor, "Removal of Stratum Corneum in Vivo: An Improvement on the Cellophane Tape Stripping Technique," <i>The Journal of Investigative Dermatology</i> , 60(2):84-87, The Williams & Wilkins Co. (1973).
341	BA ✓	Yawalkar and Pichler, "Pathogenesis of Drug-Induced Exanthema," <i>Int. Arch. Allergy Immunol.</i> , 124:336-338, S. Karger AG (2001).

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Form 1449

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<b>FORM PTO-1449</b> U.S. Department of Commerce Patent and Trademark Office	Docket No. DERM1100-3	Serial No.: 09/970,617
	Applicant(s): Rheins and Morhenn	
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	Filing Date: October 3, 2001	Group Art Unit: 1646

### U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
duplicate	AA	4,537,776	08/27/1985	Eugene R. Cooper			
duplicate	AB	4,971,800	10/20/1990	Samuel Chess et al.			
duplicate	AC	5,460,939	10/24/1995	John F. Hansbrough and Gail K. Naughton			
duplicate	AD	5,753,612	05/19/1998	Eduardo Mitrani			
34	AE	5,811,239	09/22/1998	Elizabeth G. Frayne			RECEIVED
301	AF	6,054,277	04/25/2000	Leo T. Furcht, et al.			APR 15 2003
341	AG	6,056,859	05/02/2000	J. Michael Ramsey et al.			TECH CENTER 1600/2900

### FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

341	AH ✓	Paludan, K. and Thestrup-Pedersen, K., "Use of the Polymerase Chain Reaction in Quantification of Interleukin 8 mRNA in Minute Epidermal Samples", <i>The Journal of Investigative Dermatology</i> , Vol. 99, No. 6, December 1992.
341	AI ✓	Torre and Gino, "Epidermal Cells on Stubs Used for Detection of GSR with SEM-EDX: Analysis of DNA Polymorphisms," <i>Journal of Forensic Sciences</i> , JFSCA, Vol. 41, No. 4, July 1996, pgs. 658-659.
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3H	AJ ✓	Garofano, L. et al., "PCR based analysis of epidermal cells found on adhesive tape," <i>Advances in Forensic Haemogenetic</i> , Vol. 6, 1996, pgs. 281-283. (Istituto di Anatomia e Fisiologia Umana, Universita degli Studi ti Torino, Italy).
3H	AK ✓	Garofano, L. et al., "Comparison of Powerplex® 16 System and Other Multiplex STR Typing Kits on Casework," ( <i>Reporto Carabinieri Investigazioni Scientifiche, Parma, Italia.</i> ), 2000.  Reference available at: <a href="http://www.promega.com/geneticidproc/ussymp11proc/default.htm">http://www.promega.com/geneticidproc/ussymp11proc/default.htm</a>



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3M	AA	Brand et al., "IL-1 $\beta$ Protein in Human Skin Lymph Does Not Discriminate Allergic from Irritant Contact Dermatitis," <i>Contact Dermatitis</i> , 35:152-156, Munksgaard, Denmark (1996).
3M	AB	Grängsjö et al., "Different Pathways in Irritant Contact Eczema? Early Differences in the Epidermal Elemental Content and Expression of Cytokines after Application of 2 Different Irritants," <i>Contact Dermatitis</i> , 35:355-360, Munksgaard, Denmark (1996).
3M	AC	Hoefakker et al., "In vivo Cytokine Profiles in Allergic and Irritant Contact Dermatitis," <i>Contact Dermatitis</i> , 33:258-266, Munksgaard, Denmark (1995).
duplicate copy	AD	Kondo et al., "Characterization of Epidermal Cytokine Profiles in Sensitization and Elicitation Phases of Allergic Contact Dermatitis as Well as Irritant Contact Dermatitis in Mouse Skin," <i>Lymphokine and Cytokine Research</i> , 13(6):367-375, Mary Ann Liebert, Inc. (1994).

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